USER MANUAL
Digital Hardness Tester
Model: HT6000

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Contents:

1. INTRODUCTION. 3
1.1. RECOMMENDATIONS BEFORE USE. 3
1.2. WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT (WEEE). 4
2. WARRANTY 4
3. SECURITY REQUIREMENTS. 4
3.1. ELECTRIC RISK 5
4. RISKS PREVENTION. 6
5. BOX CONTENTS. 6
6. GENERAL DESCRIPTION. 7
6.1. FUNCTION. 7
6.2. WORKING PRINCIPLE 7
6.3. MAIN TECHNICAL SPECIFICATIONS 7
6.4. IMAGES. 8
6.5. SWITCHING ON THE DEVICE. 10
6.6. SWITCHING OFF THE DEVICE 10
6.7. STANDBY MODE. 10
6.8. CHARGING THE BATTERY. 10
6.9. MAIN FUNCTION OF THE BUTTONS. 10
6.10. TAKING THE MEASUREMENTS. 10
6.11. TAKING MEASUREMENTS ON PLASTIC MATERIALS, RUBBERS, PLASTERS, ETC. 10
6.12. TAKING MEASUREMENTS ON FRUITS. 11
6.13. SUMMARY OF MENU OPTIONS. 11

6.14. DISPLAY DESCRIPTION 12
1. Main screen (Full mode). 13
2. Main screen (Simple mode). 14
3. Data Management Screen. 14
4. Explanatory images of the screens. 16
6.15. DATA EXPORT TO EXCEL. 19
7. SPECIFIC PRODUCT SAFETY. 24
8. MAINTENANCE AND STORAGE TASKS. 24
8.1. CLEANING. 24
8.2. TASKS TO CARRY OUT CORRECT MAINTENANCE. 24
9. CE DECLARATION OF CONFORMITY. 25
10. TEST CERTIFICATE. 25
11. DIAGNOSTIC TABLE. POSSIBLE ERRORS AND SOLUTIONS. 26

1. INTRODUCTION.

Thanks for purchasing a Baxlo instrument. Please, read the entire manual and the safety practices in this manual before operating or servicing the device. Although the information contained in this manual represents the best judgment of the manufacturer, the manufacturer does not assume any responsibility for its use.

1.1. RECOMMENDATIONS BEFORE USE.

These INSTRUCTIONS are intended for the user. If you have any questions about this, contact the manufacturer. Do not allow inexperienced persons to operate or maintain this device. Do not use the device until you have fully read these instructions. If you do not understand any part of these instructions, please contact the manufacturer for additional information. Be sure to read the safety precautions before installing or using this device.

…IT IS THE RESPONSIBILITY OF THE USER…

This device will perform in accordance with the description contained in this manual, the accompanying labels, and the instructions provided.

- It should not be used with improper maintenance or operation. Broken, missing, worn or bent parts must be replaced immediately. If such repair or replacement becomes necessary, the manufacturer recommends requesting service by phone or in writing to the dealer from whom it was purchased. This device or any of its parts must not be modified without the prior written authorization of the manufacturer.
- The user shall be solely responsible for any malfunction resulting from misuse, improper maintenance, damage, repair, or improper modification by anyone other than the manufacturer or an authorized dealer designated by the manufacturer.
- It is recommended to use only replacement parts recommended by the manufacturer. In case of detecting any deficiency, notify the manufacturer to correct it.
- Before using the device, check that all its components do not show any damage caused during transport; otherwise, the defective parts must be replaced.
- Do not move or remove the security warnings. If they are damaged or lost, they must be replaced.

THE MANUFACTURER DECLINES ALL RESPONSIBILITY FOR DAMAGE OR DETERIORATION CAUSED BY UNAUTHORIZED MODIFICATIONS MADE TO THE DEVICE.

1.2. WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT (WEEE).

HOW TO DISPOSE OF OBSOLETE ELECTRICAL AND ELECTRONIC APPLIANCES

1) If the symbol of a crossed-out wheelie bin appears on a device, it means that it is covered by Directive 2012/19/EU.
2) All electrical or electronic equipment must be disposed of in a way other than the municipal garbage collection service, through collection points designated by the government or local authorities.
3) The correct collection and treatment of useless devices helps to avoid potential risks to the environment and public health.
4) For more information on how to dispose of obsolete devices, contact your local council, the garbage collection service or the store where you purchased the device.

RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO DIRECTIONS.

2. WARRANTY.

The manufacturer guarantees the original purchaser the current legal guarantee period. During the warranty period, the purchaser or the purchaser's authorized personnel shall be responsible for the maintenance and replacement of any device found to be a problem after inspection.

IMPORTANT: Scratches, bumps or falls and water or moisture ingress are NOT INCLUDED IN THE WARRANTY.

The guarantee does not include the following items:

- Accidents caused by irregular use, or mistreatment of the device for not following the instructions defined by the manufacturer.
- Any device that has been modified or whose maintenance has been carried out by personnel not authorized by the manufacturer.

The device requires, for warranty service, to be sent with proof of purchase, a detailed description of the problem and the serial number of the device obtained from your local service.

This warranty does not include consumables. If the device uses unauthorized parts or its maintenance is carried out by persons not qualified or authorized by the manufacturer, it will be out of warranty. If you have any questions about the particular device or service provider, contact the manufacturer or service representative.

3. SECURITY REQUIREMENTS.

Please read all of the safety information below before using your device:

- Use of unauthorized cables, power adapters, or batteries may cause fire, explosion, or other hazards.
- Use only authorized accessories that are compatible with your device.
- The operating temperature range of this device is from 0ºC to 40ºC. Using this device in an environment outside of this temperature range may damage the device.
- Your device has a built-in battery, to avoid damaging the battery or the device, do not attempt to replace the battery yourself.
- Do not open the device. If repair is necessary, contact the manufacturer.
- It must be kept away from sources of heat. Fire danger.
- Do not drop the device or give it shock.
- Do not open the device. If repair is necessary, contact the manufacturer.
- It must be kept away from sources of heat. Fire danger.
- Do not drop the device or give it shock.
- Do not spill liquid on its components.
- The user must not modify the design or configuration of the device without consulting the manufacturer or its authorized representative.
- Electrical elements can be damaged by corrosion; therefore, this device must be used away from corrosive environments.
- As far as possible, please keep the unit out of direct sunlight. The ambient temperature and relative humidity must be as specified according to the type of installation.

3.1. ELECTRIC RISK.

Contact with electrical parts and ground can cause severe damage.

Therefore:

- Exposed or poorly connected cables and conductors can expose the operator or bystanders to fatal electrical shock.
- Use it only if it is in good condition. Replace wires that are broken, damaged, or with exposed conductors.
- Keep everything dry, the cables and the power source.

4. RISKS PREVENTION.

During use, the following preventive measures should be taken into account:

- **THE CONNECTIONS WILL BE IN PERFECT SECURITY CONDITIONS.**
- **ALWAYS READ THE MANUAL AND THE LABELING.**

ELECTRIC RISK. DO NOT TOUCH OR HANDLE THE ELECTRICAL EQUIPMENT.

5. BOX CONTENTS.

- HT6000 Hardness Tester
- USB Cable
- Quick Start Guide

6. GENERAL DESCRIPTION.

Thanks for purchasing our Baxlo Digital Hardness Tester. This device has been carefully designed by applying our extensive knowledge in the field of hardness measurement of different materials, taking advantage of the latest available technology to offer a satisfactory and reliable use. This device is also widely used to determine the degree of ripeness of all kinds of fruits and vegetables. (Grapes, blueberries, tomatoes, strawberries, etc).

This manual describes the operation and the different functions of the Baxlo HT6000 Digital Hardness Tester.

For the description of the functions of the device in this manual, the four buttons on the front panel are numbered 1 to 4 from left to right.

6.1. FUNCTION.

The main purpose of this equipment is to determine the Shore hardness of plastic materials, soft materials, fruits, etc.

The device works with a rechargeable battery via USB.

The device can store up to 5000 measures in the internal memory and dump these data to the computer through the USB port.

6.2. WORKING PRINCIPLE.

The apparatus applies a force by means of an internal spring and reads the penetration of an indenter of known dimensions into the material. The penetration has a range of 0 to 2.5mm.

By accurately reading the penetration of the indenter into the material, the apparatus gives a measure of the hardness of the sample from 0 to 100 shore units.

The penetration measurement is done by an on-chip magnetic sensor. It has a backlit display to show the results and access the different configurations.

6.3. MAIN TECHNICAL SPECIFICATIONS

HT6000 DIGITAL HARDNESS TESTER	
Brand	Baxlo
Model	HT6000
Dimensions	130 x 72 x 33mm
Weight	400 grams
Measuring Range	0-100 Shore Units
Resolution	0.1 Shore Units
Max. Measurement Error	0.5 Shore Units
Storage Capacity	5000 measures
Supply Voltage	5Vdc
Max. power consumption	2W
Battery capacity	2000mAh
Battery life	150 hours in Standby mode
IP rating	IP 54
Data communication	USB Cable

6.4. IMAGES.

Main Unit

Detailed picture of the connections and the instrument clamping piece

Detail image of the measurement sensor

6.5. SWITCHING ON THE DEVICE.

To turn on the device, press the left button (1). If it does not turn on, charge the device by connecting it using the attached cable to any USB socket. A full charge will last from 4 to 6 hours.

6.6. SWITCHING OFF THE DEVICE.

With the device ON, press the key (1) for 3 seconds. The device will be switched off and will only respond by pressing again the power button (1).

6.7. STANDBY MODE.

To save battery, the device enters the Sleep or Standby state after 1 minute of no activity (This time can be adjusted in the parameters section). If the sensor is activated again or if any key is pressed, the instrument returns to work normally. In the Standby state, the screen is simply turned off, but the rest of the functions are still active.

6.8. CHARGING THE BATTERY.

When the battery indicator shows that it is discharged or the unit is off and don't respond to the pressing of any button, connect the device to any USB socket by means of the supplied USB cable. The battery indicator will indicate that it is charging. Disconnect from the USB socket, after 4 – 6h.

6.9. MAIN FUNCTION OF THE BUTTONS.

- Button 1: On/Off the device. Resetting the measurement
- Button 2: Transfer the current reading via USB to the computer.
- Button 3: Measurement list / Data management
- Button 4: Settings

6.10. TAKING THE MEASUREMENTS.

Press the sample piece to be measured against the durometer disk exactly the same as in a conventional analog durometer.

After X seconds (user-definable time) the device will emit a sound and the "Magic Eye" LED will light up, showing the hardness of the piece. The "Magic Eye" led will light up in blue, green or red depending on the margins that we have entered in the configuration parameters.

- Blue = Over limit
- Green = Within limits
- Red = Below limit

The sound also indicates the state of hardness.

- Three beeps = Over limit
- Two beeps = Within limits
- 1 beep = Below limit

At this point, the reading and all his associated data (date, time, temperature, etc.) is stored in the internal memory of the device and immediately afterwards, the device is ready for the next measurement.

The internal memory can store up to 5000 readings with all its associated data.

6.11. TAKING MEASUREMENTS ON PLASTIC MATERIALS, RUBBERS, PLASTERS, ETC.

1. Test probes must have a thickness of, at least 6 mm. and not being subjected before to any mechanical effort. For thinner test

blocks, you must provide a base of the same material or other of the same hardness.

2. The surfaces to be tested must be as flat as possible. On rubber materials they should be dusted with talcum powder prior to the test.
3. Temperature is an important factor in hardness measurement. Check that the ambient temperature indicated by the instrument is within those specified by the measurement standards.
4. The standard stabilization time for elastic materials is 3 sec. Check the stabilization time in the parameters section. The stabilisation time is of utmost importance for the measurement of the hardness of elastic materials.
5. Make at least three impressions at different positions on the test piece, separated at least 5 mm from each other. To determine the nominal hardness of the material, take the arithmetic mean of the three measurements.
6. To improve repeatability, when testing, the durometer must exert a force of approximately 1 kg on the surface to be measured. For the Shore 00 scale the force must be aprox. 400 g and for the Shore C, D and D0 scales the force shall be 5 kg.
7. The pressure must be exerted perpendicular to the surface. If the shape and size of the workpiece allow, better results can be obtained by using a device to hold the apparatus (durometer stand) which allows the durometer to be pressed perpendicularly, with an adequate and constant force.

6.12. TAKING MEASUREMENTS ON FRUITS.

1. The surface of the sample must be clean and dry. Choose an area as smooth as possible.
2. Take at least two measurements on each side of the fruit. If you obtain different readings, thake the average as a representation of the hardness of the fruit.
3. When performing the test, the durometer should be pressed firmly against the fruit sample with regular pressure while assuring that the durometer´s lower disk is in contact with the surface of the fruit. Please, make sure that the instrument axis is as perpendicular as possible to the surface of the sample. Once in position, exercise a pressure of approx. 1Kg except for the F0 scale which is approx. 250 gr.
4. Wait without moving the piece until the stabilization time has passed and the durometer beeps and fixes the reading on the screen.
5. If the shape and size of the fruit allows it, better results can be obtained by using a device to hold the apparatus (durometer stand) which allows the durometer to be pressed perpendicularly, with an adequate and constant force.

6.13. SUMMARY OF MENU OPTIONS.

Main menu

- **Settings:** Enter the configuration parameters submenu.
- **Clear Memory Data**: Deletes the list of measurements.
- **Factory Settings**: Returns the device to the factory default options.

- **Clock Setup**: Allows you to change the date and time.
- **Date Format**: Changes de date display between DD/MM/YY (Day/Month/Year) and MM/DD/YY (Month/Day/Year)
- **Exit**: Return to the main screen.

Settings Menu

- **Language**: Change the language of the menus.
- **Limit Hard**: Upper limit of hardness. With greater measures the Magic Eye led will flash blue and the measure is indicated with three beeps.
- **Limit Soft**: Lower limit of hardness. With Lower measures the Magic Eye led will flash red and the measure is indicated by one beep. If a lower limit is programmed higher than the upper limit by mistake, the lower limit will be automatically cancelled and the device will only respond to the upper limit. The "Magic Eye" LED will show in blue the measurements above the upper limit and in red the measurements below it.
- **Measurement Time**: Defines the stabilization time that the device takes to set the measurement. If a time = 0 is entered, the display always shows the current value without stabilization time. In this mode, the measurements are not stored nor does the LED or the beep turn on.
- **Free Mode**: It is equivalent to put a Measurement time of 0 sec. There is not a stabilization time. The display shows the current hardness value but the measures are not stored and the beep and magic Eye functions are not enabled.
  Batcht: Allows you to enter the batch number. When uploading the data to the computer, each measurement will be associated with the batch number entered in this option.
  Display: Allows you to switch between the full screen with all the information and a summary screen with larger digits but less information.
- **TempDisplay**: Change the temperature display between Celsius and Farenheit degrees.
- **Beep**: Activates or deactivates the sound.
- **ECOMode**: Turns the "Backlight" illumination of the screen on / off.
- **Standby** (sec): After this time without activity, the screen turns off, but the device is still active.
- **Exit**: Return to the Main Menu.

6.14. DISPLAY DESCRIPTION

The device can show three screens which are described below.

- The main display has two modes which can be selected in the parameter section.
  - **Full Display**: Shows all the complete information (Temperature, date, time, duration of the measurement, etc.). We call this display mode Full Mode.
  - **Simple display:** Shows the current measurement with larger digits but no additional information.
- **Data management screen:** Shows the complete List of Measurements stored in the internal memory and also serves to bulk that data to the computer.

1. Main screen (Full mode).

The information provided by this screen is:

- **Reading**: Indicates the current hardness reading
- **Maximum Reading**: Indicates the maximum value reached by the reading in the current measurement
- **Measurement counter**: Indicates the number of measurements made since the last reset of the counter. It may not coincide with the order number of the measurements on the data management screen. To reset the measurement counter, press the Zero (1) and List (3) buttons simultaneously.
- **Battery Status Indicator**: Indicates the battery charge status. When the battery is being charged via the USB port the indicator will flash.
- **Measurement Time**: Indicates the time that the hardness measurement will last. This value can be modified in the configuration of the equipment settings. When the measurement is in progress, it counts down and shows the time remaining to set the hardness measurement. When the counter reaches zero, the measurement is memorized and is displayed on the screen.
- **Room temperature**: Displays the room temperature in Celsius or Fahrenheit degrees. (See parameters section to change the display between Centigrade degrees and Fahrenheit degrees).
- **Function Icons**: Indicates the function of each button in the current mode.
- **Clock**: Shows the current date and time.

The function of the buttons on this screen are:

- **Zero Button (1)**: Resets the measurement indicator and corrects small measurement errors in the rest position of the device.
- **Data Communication Button (2)**: By pressing this button, the current value of the measurement is sent through the communications port along with all its associated data (measurement number, temperature, date, time, etc.)
- **Data Management Button (3)**: Pressing this button you enter the measurement and data management list screen.
- **Settings button (4)**: Enter the equipment settings configuration menu.

Image of the main screen

2. Main screen (Simple mode).

The information provided by this screen is:

- **Current reading**: Indicates the current hardness reading
- **Battery Indicator**: Indicates the battery charge status. When the battery is being charged via the USB port the indicator will flash.
- **Buttons Function**: Indicates the function of each button in the current mode.

The function of the buttons is the same as in the Full mode screen.

Image of the main screen

3. Data Management Screen.

Shows the complete list of the measurement history. The measurement list can be cleared and reset from the main menu.

- **Measurement number**: Indicates the order number of the measurement
- **Date**: Indicates the day on which the measurement was carried out in DD/MM/YY format.
- **Time**: Indicates the time at which the measurement was made.
- **Temperature**: Indicates the room temperature in Celsius degrees.
- **Reading**: Indicates the hardness value.
- **Category**: Indicates the hardness category of the part according to the following classification:
    1. Below the hardness specified in the Soft Hardness parameter
    2. Within the values specified between the Soft Hardness and Firm Hardness parameters specified in the parameter menu.
    3. Above the hardness specified in the Firm Hardness parameter.

The functions displayed on this screen are:

- **List Up**: Scrolls the list of measurements up.
- **List Down**: Scrolls the list of measurements down.
- **Exit**: Returns to the main screen.

- **Data output**: Pressing this key for more than two seconds starts the block communication of all the measurements, with their associated data, to the computer connected to the USB port. This communication may take a while depending on the volume of data to be transferred. During the time the communication lasts, the Magic Eye LED will flash green. Once all the data has been communicated, the led will stop flashing and normal operation can be continued.

Image of the data management screen

4. Explanatory images of the screens.

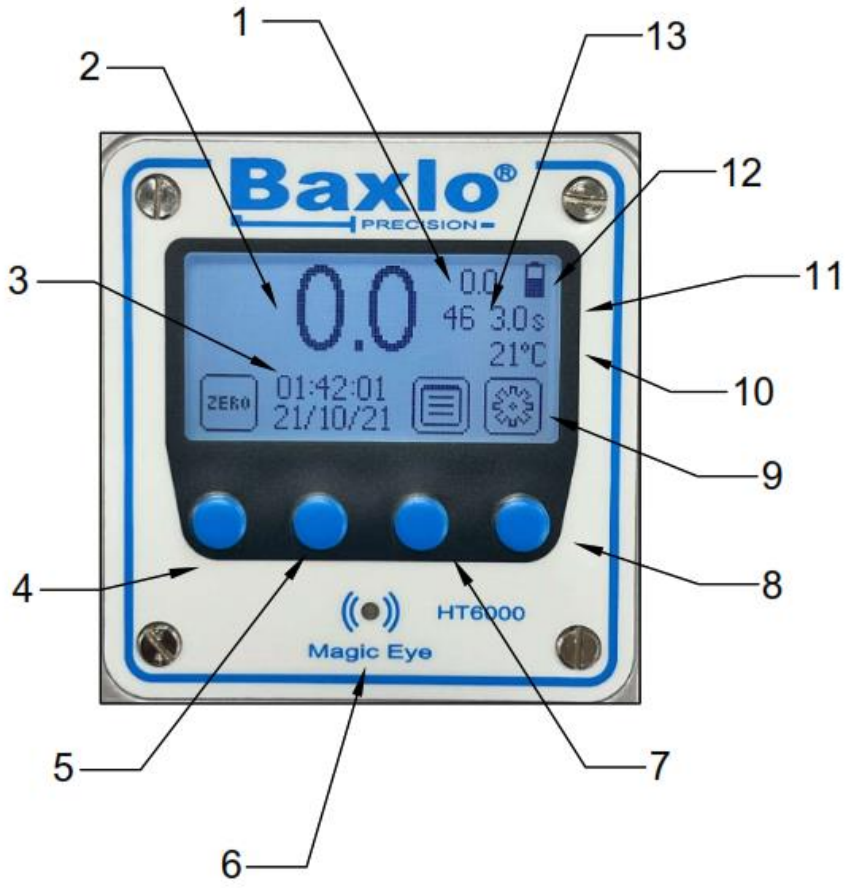


Image of the main screen

1	MAXIMUM READING
2	READING
3	CLOCK: TIME / DATE
4	RESET BUTTON
5	DATA SEND BUTTON
6	LED MAGIC EYES
7	DATA MANAGEMENT BUTTON
8	SETTINGS BUTTON
9	FUNCTION ICONS
10	ROOM TEMPERATURE
11	MEASUREMENT TIME
12	BATTERY STATUS INDICATOR
13	MEASUREMENT COUNTER

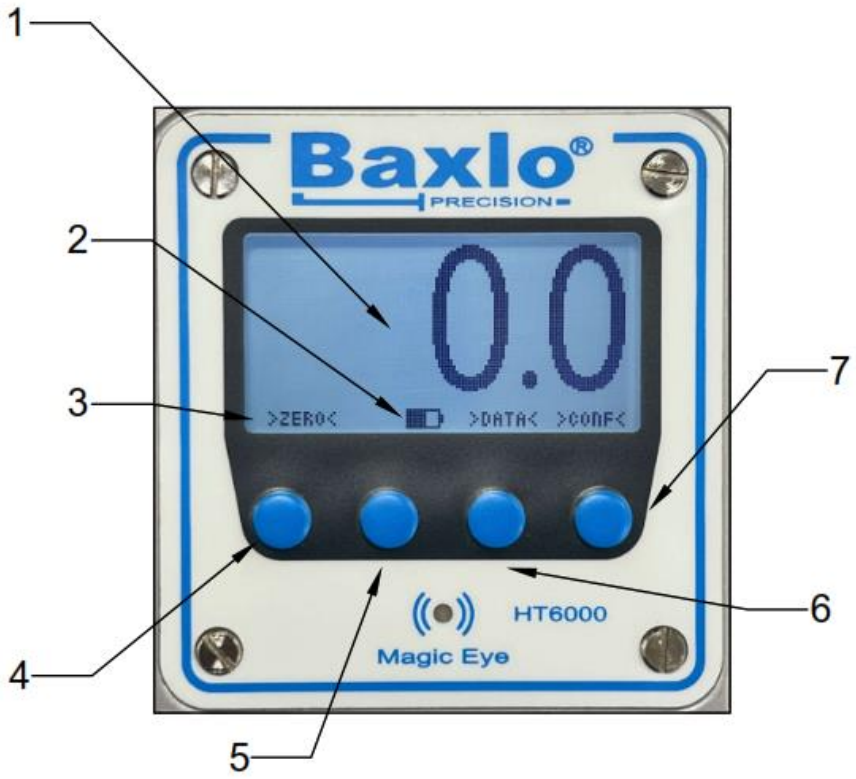


Image of the main screen

1	CURRENT READING
2	BATTERY INDICATOR
3	BUTTON FUNCTION
4	RESET BUTTON
5	DATA SEND BUTTON
6	DATA MANAGEMENT BUTTON
7	SETTINGS BUTTON

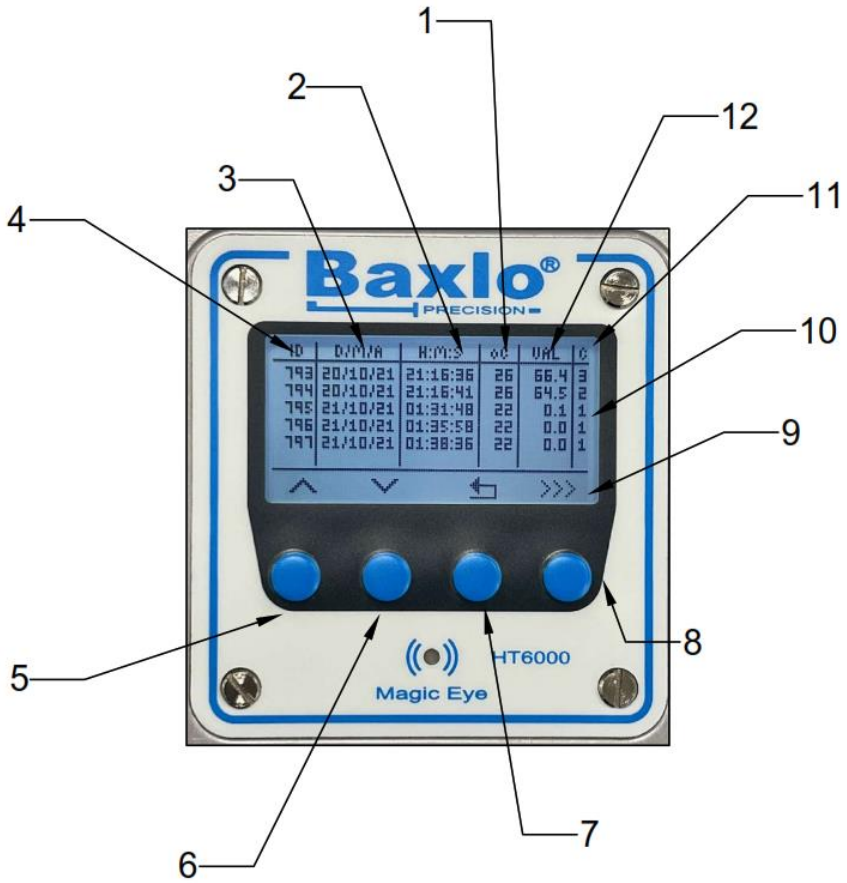


Image of the data management screen

1	TEMPERATURE
2	TIME
3	DATE
4	MEASUREMENT NO.
5	LIST UP
6	LIST DOWN
7	EXIT BUTTON
8	BULK DATA COMMUNICATION
9	FUNCTION ICONS
10	LIST OF MEASURES
11	CATEGORY
12	READING

6.15. DATA EXPORT TO EXCEL.

The following steps explain how to export the data contained in the device's memory to an Excel table.

What do we need?

We will need the following:

- Baxlo Digital Durometer
- USB Cable
- Windows 10 or 11 computer with Excel installed.
- USB communication drivers.
- The Termite Communications Program.
- Excel data template.

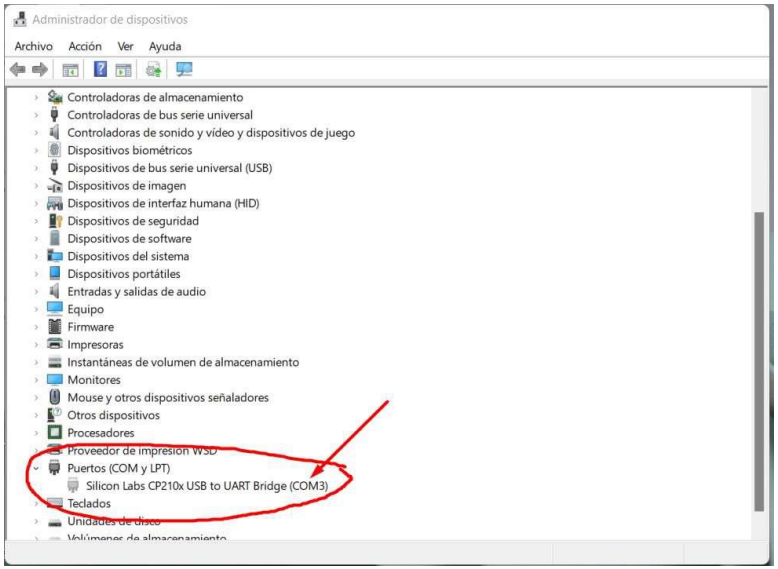
Step by step instructions:

1. Installation of communication drivers:
   i. Unzip the file "Durometer Drivers Baxlo.Zip" that we have previously provided.
   ii. Run the installer:

   Inside the “Baxlo Durometer Drivers” folder there are 2 executable files (Files with the .exe extension).

   For computers with Windows 10 or Windows 11 64-bit, you must run the file "CP210xVCPInstaller_x64.exe" and follow the installation instructions.

   iii. Connect the durometer using the supplied USB cable.
   iv. Once the installer has been executed, and the durometer is connected to the computer, we are going to verify that the driver has been successfully installed using the Windows Device Manager. To do this, in the Windows search bar we will enter the following command: “devmgmt.msc”.
   v. The following screen will appear:



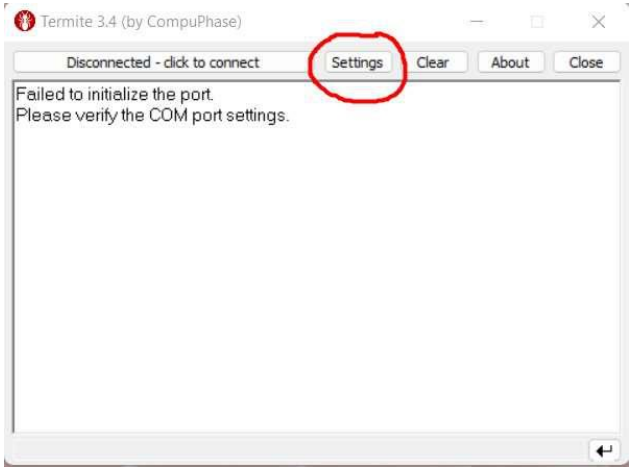
We will locate the lines marked in the previous figure that indicate that the Durometer is connected and has been recognized.

vi. We write down on a piece of paper the number that appears after the word COM, in this case COM3. This number will be used later to configure the communications program.

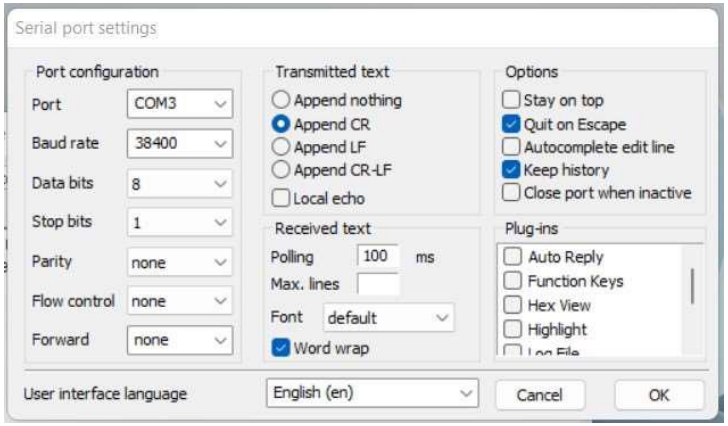
2. Installation of the Termite communications program: The Termite communications program is public domain software with which we will carry out data communication between the durometer and the computer.
   i. Disconnect the device.
   ii. Install the program from the website:

   https://www.compuphase.com/software/termite-3.4.exe

   iii. Follow the installation instructions.
   iv. Once installed, run it and click on the "Settings" button

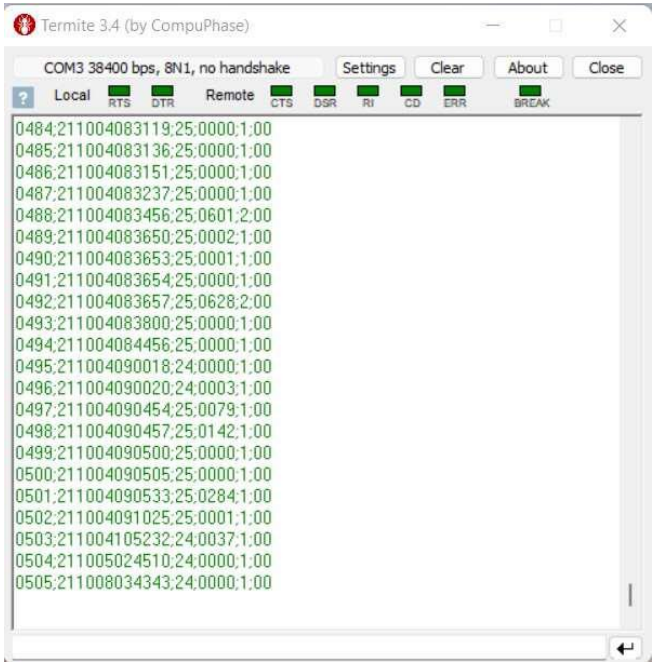


v. In the Settings screen of the Termite program we must enter the settings exactly as seen in the following image. Attention to the Port option; We must enter the port number that we have previously noted when installing the driver.

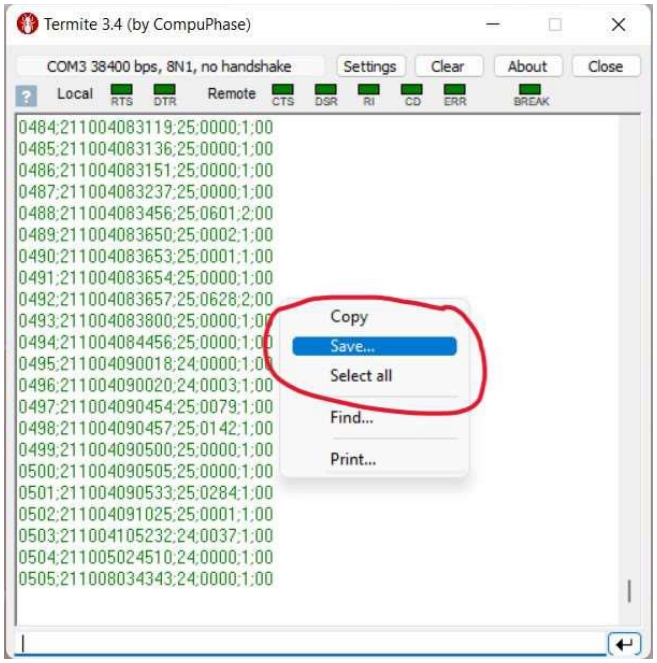


vi. press OK
vii. Connect durometer.
viii. Click on the “Disconnected – click to connect” button to start the connection.
ix. If everything went well, the Button will show the connection speed and other data.
x. Press Clear to clear the screen

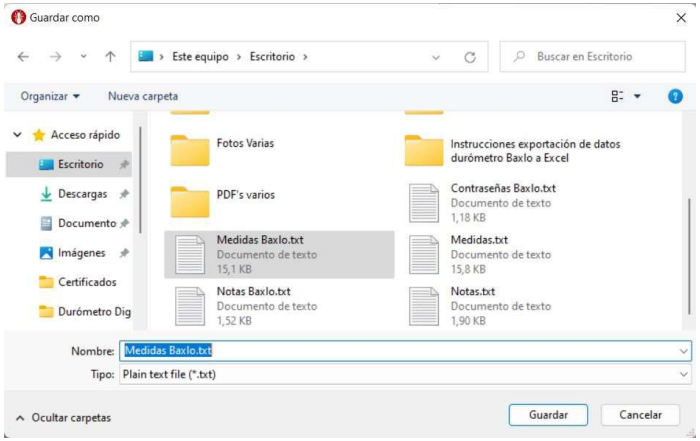
3. Downloading the durometer measurements to the computer:
    i. With the durometer connected by USB and the Termite program running, go to the durometer data management screen (Button 3)
    ii. Press button 4 for 2 seconds. The communication will start and on the screen of the Termite program the measurement data will appear in green.



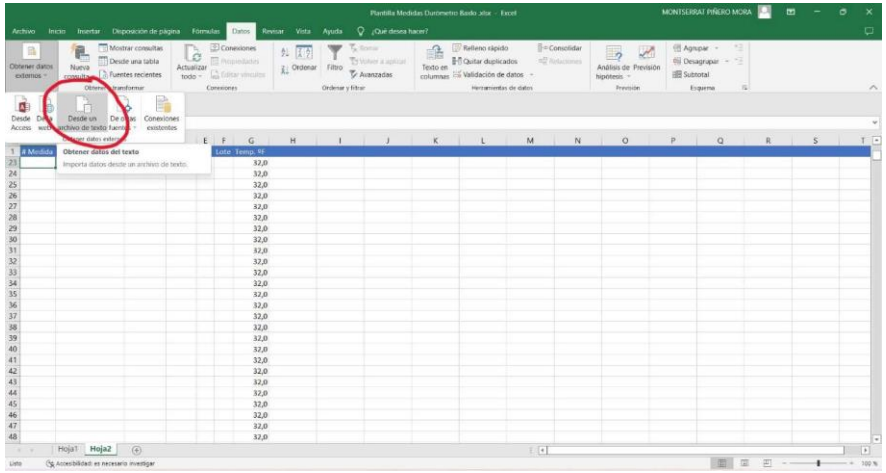
iii. We must save all this data on the computer in the form of a text file, for this we press the right mouse button and click on the "Save..." option.



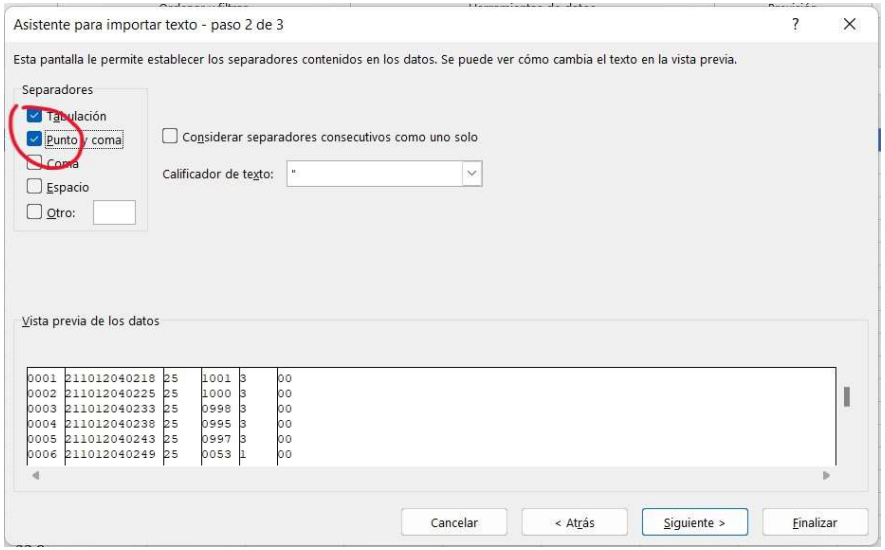
iv. We give the file the name we want (For example "Baxlo Measurements.txt") and we save it, for example, on the desktop. This file will have to be recovered later to import it into Excel.



4. Export measurements to Excel:
   i. Open the supplied template “Baxlo Durometer Measurements Template.xlsx”. This template includes a pre-filled example spreadsheet (Sheet 1) and an empty one (Sheet 2).
   ii. Select the first empty box on Sheet 2 (A2).
   iii. Select the command “Get external data” ”From a text file” in the “Data” tab and open the text file that we had previously saved. “Baxlo Measurements.txt”



iv. The text import wizard will open. In Step 1 we leave the default options, in Step 2 we select the option "Separators: Semicolon" and in Step 3 of the wizard we will leave the default options. Since we had previously selected the first empty cell of our spreadsheet, we will not have to modify the default option (Where do you want to put the data? Existing spreadsheet=A2.



v. Once the wizard is finished, we will have a spreadsheet filled with the recently imported durometer data and from there we can use all the tools that Excel gives us to process the data: Reports, Records, Graphs, statistics, etc.

7. SPECIFIC PRODUCT SAFETY.

- The equipment must be at least 15cm from any medical device, implant or similar.
- Do not expose the equipment and its battery to high temperatures. Overheating can cause explosion.
- When the equipment charge is complete, disconnect the charger.

8. MAINTENANCE AND STORAGE TASKS.

Repair, cleaning and intervention operations must be carried out with THE DEVICE COMPLETELY DISCONNECTED FROM ITS POWER SOURCES.

Defective or poorly maintained device can cause damage. Therefore:

- Do not do any electrical work unless you are qualified to do the work.
- Disconnect the power supply from the electricity supply.
- Keep the cables, connections, primary cable, in good condition. Do not operate any component in poor condition.
- Keep the device away from things that generate heat such as ovens, as well as damp places such as puddles of water, oil or grease, corrosive atmospheres, and bad weather.
- Use the device only for its designed purpose.

8.1. CLEANING.

No special cleaning devices are required for cleaning tasks, no aggressive or toxic cleaning devices may be used. The user must follow the following recommendations for maintenance and cleaning:

- **It is recommended to clean the device periodically depending on the place where it is located to avoid dust and consequently malfunction.**
- The use of any chemical device is not recommended.
- Once any cleaning operation has been carried out, it is necessary to check all the components.

8.2. TASKS TO CARRY OUT CORRECT MAINTENANCE.

- Clean the case with a soft cotton cloth dampened with water.
- Clean the screen with a clean, dry cloth.

9. CE DECLARATION OF CONFORMITY.

EC DECLARATION OF CONFORMITY

"EC" DECLARATION OF CONFORMITY

"CE" DECLARATION OF CONFORMITY

The undersigned, on behalf of the manufacturer:

Baxlo PRECISION — Instrumentos de medida y precisión

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CP 08213 POLINYÀ (Barcelona) - SPAIN
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https://baxlo.com/

Declares that the design and construction of the PRODUCT/
Declares that the design and manufacture of the PRODUCT/
Declare that the design and construction of the product:

PRODUCT: Digital Hardness Tester
MODEL: HT 6000

This declaration of conformity is issued under the sole responsibility of the manufacturer.

Complies with the relevant Union harmonization legislation /
Complies with relevant Union harmonization legislation/
Pursuant to the applicable Union harmonization legislation:
References to the relevant harmonized standards used or references to the other technical specifications / References to the relevant harmonized standards used or references to other technical specifications / Références aux normes harmonisées pertinent utilisées ou références aux autres specifications techniques

2014/30/UE – Electromagnetic Compatibility
2011/65/UE – ROHS amended by 2015/863/UE

UNE EN 61010-1:2011+A1:2020
UNE-EN IEC 61326-1:2021
UNE-EN 61000-6-1:2019
UNE-EN 61000-6-3:2021

Date of issue of this declaration of conformity: 4/4/2023

SIGNATURE (Name and position of the signatory)

Baxlo PRECISION — INSTRUMENTOS DE MEDIDA Y PRECISION, S.L.

C. Lozano
General Manager

10. TEST CERTIFICATE.

telproCE

Laboratorio de Ensayos, marcado CE

Test Laboratory, CE mark

Marca: / Brand:	BAXLO
Modelos: / Models:	HT6000
Descripción: / Description:	Durómetro digital / Digital hardness tester
Directivas: / Directives: / Regulations:	2014/30/EU (E. M. C.) 2014/32/CE (Measuring instruments)
Ensayos y medidas. Norma: / Tests and measurements. Standard:	UNE-EN 61010-1:2011+A1:2020 UNE-EN 61000-6-1:2019 UNE-EN 61000-6-3:2021 UNE-EN IEC 61326-1:2021
Resultado en el informe de los ensayos Nº.: / Show in summary in test report Nº.:	2022-10-001.2
Verificado: / Verified:	V
Fecha (DD-MM-AAAA): / Date(DD-MM-YYYY):	05-10-2022
Sello de la compañía y firma: / Company seal and signature.	F. X. García. Ing. T. Telecom. General manager.

laboratorio de ensayos telproCE www.elmarcadoCE.com

Av. Ca N'Enric, 39 - 08197 Sant Cugat - Valldoreix BARCELONA Tel.: 93 589 35 69, Móv.: 608 691 651
telproCE (Es una marca nacional registrada en la OEPM con el nº.: M4079237(4).
www.telproce.com www.elmarcadoce.com

11. DIAGNOSTIC TABLE. POSSIBLE ERRORS AND SOLUTIONS.

Mistakes	Possible solutions
The device does not turn on.	Connect the device to a USB socket using the supplied cable. Charge the device for a minimum of 4 to 6 hours.
The device does not emit sound.	Activate sound in the settings menu. Press button 4 (Settings) -> Parameters -> Sound -> On
The screen backlight does not work.	The device is in ECO mode. Deactivate ECO mode through the configuration menu: Settings -> Parameters -> ECO Mode -> OFF
Hardness measurement does not stabilize, no sound is emitted when measuring.	Free measurement mode is activated. To deactivate them press Settings -> Parameters -> Free Mode -> Off
Room temperature is not displayed correctly.	The temperature reading is influenced by body temperature when holding the device with your hands. Use the device with gloves. The device has not been at the same temperature long enough for the temperature reading to stabilize. The device must remain for at least 1 hour in the same room and at the same temperature to ensure that the temperature reading is reliable.
The device at rest gives a reading other than 0.	Press the reset button. "Zero".
The device displays a measurement other than 100 when pressed against a hard, flat surface.	The surface is not hard enough. The device has not been pressed firmly enough and completely perpendicular to the test surface.
USB communication does not work.	Check the speed settings and data format in the communication program (See section 6.15) Replace the USB cable. Make sure that the USB connector of the computer works correctly (Testing with another device).
The measurements obtained are unstable, too high or too low.	The shore scale of the device is not adequate for the piece to be measured; the appropriate shore scale must be used for each type of material.

THIS MANUAL HAS BEEN PREPARED WITH THE HELP OF TEXT AND IMAGES PROVIDED BY THE MANUFACTURER MAKING REFERENCE TO ITS INDICATIONS.